

ALKALINE CELL WITH IMPROVED CATHODE

ABSTRACT OF THE DISCLOSURE

An alkaline cell having an anode comprising zinc, an alkaline electrolyte solution, a separator, and a cathode comprising copper iodate. The cathode preferably also includes a graphitic carbon to improve electrical conductivity. The graphitic carbon can comprise natural or synthetic graphites including expanded graphites and graphitic carbon fibers. Preferably, the graphitic carbon comprises graphitic carbon nanofibers. The carbon nanofibers desirably have a mean average diameter less than 500 nanometers. The cathode can also include sulfur in admixture with the copper iodate to improve cell performance.